



TPW 1052/B

PATENT  
Attorney Docket No. P06153US02

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT: SQUIRES et al. Group Art Unit: 1652  
SERIAL NO: 10/024,628 Examiner:  
FILED: November 23, 2001 Confirmation No: 8447  
TITLE: METHOD FOR DETERMINING SUSCEPTABILITY OF A MALE PIG TO  
DEVELOPING BOAR TAIN

**SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT  
BEFORE MAILING DATE OF EITHER A FINAL ACTION  
OR NOTICE OF ALLOWANCE (37 C.F.R. § 1.97(c))**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

This information disclosure statement is being filed *before* the mailing date of either a final action under § 1.113 or a notice of allowance under § 1.311, whichever occurs first.

Attached are Forms PTO/SB/08B (formerly Form PTO-1449) listing the relevant art known to the applicant herein. This application relies, under 35 U.S.C. § 120, on the earlier filing date of prior application Serial No. 09/288,037, filed on April 8, 1999. Copies of non-U.S. patents are enclosed. References that are U.S. patents are not required to be submitted. Copies of the references are enclosed. The Examiner is requested to consider the references and make them of record.

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CERTIFICATE OF MAILING/TRANSMISSION (37 CFR 1.8(a))

I hereby certify that this correspondence is, on the date shown below, being:

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☒ deposited with the United States Postal Service with sufficient postage as First Class mail in an envelope addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Date: 11-23-04

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☐ transmitted by facsimile to the Patent and Trademark Office, Art Unit 1652 at Fax No. (703) 872-9306.

JANA E. LEHMAN BELL

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Applicant discloses herewith patents, publications or other information, of which they are aware that they believe may be material to the examination of this application, and in respect of which, there may be a duty to disclose. Legible copies of all items listed in Forms PTO/SB/08A and 08B (formerly Form PTO-1449) accompany this information statement, except those identified above.

The filing of this information disclosure statement shall not be construed as a representation that a search has been made (37 C.F.R. § 1.97(g)), an admission that the information cited is, or is considered to be, material to patentability, or that no other material information exists.

Applicant elects the option to pay the fee set forth in 37 C.F.R. sec 1.17(p) for submission of an information disclosure statement under § 1.97(c). A check in the amount of \$180.00 is enclosed.

Authorization is hereby made to charge any additional fees required by this paper or credit any overpayment to Deposit Account 26-0084. A duplicate of this paper is attached.

The filing of this information disclosure statement shall not be construed as an admission against interest in any manner.

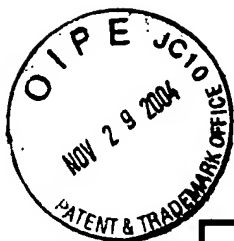
Respectfully submitted,



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- bja -

Attorneys of Record



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<b>Substitute for form 1449A/PTO</b>  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)  Sheet 1 of 3		<b>Complete if Known</b>	
		Application Number	10/024,628
		Filing Date	November 23, 2001
		First Named Inventor	SQUIRES, et al.
		Art Unit	1652
		Examiner Name	
		Attorney Docket Number	P06153US02

U.S. PATENT DOCUMENTS					
Examiner Initials *	Cite No. <sup>1</sup>	Document Number Number - Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	1	US- 4,906,563 A	03/06/1990	Singh Prithipal et al.	
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FOREIGN PATENT DOCUMENTS						
Examiner Initials *	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
	2	WO 80 02597 A	11/17/1980	Slagteriernes Forskningsinst		
	3	WO 89 06361 A	07/13/1989	Idetek Inc.		
	4	CA 2 234349 A	10/08/1999	Univ of Guelph		
	5	WO/02/24945 A2	03/28/2002	Meat & Livestock Commission		

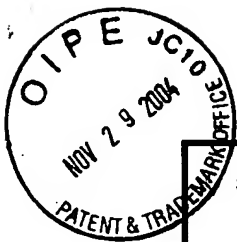
Examiner Signature		Date Considered	
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\*EXAMINER: Initial if reference considered whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible.

<sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.



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<b>Substitute for form 1449B/PTO</b>  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)  Sheet 2 of 3		<b>Complete if Known</b>	
		Application Number	10/024,628
		Filing Date	November 23, 2001
		First Named Inventor	SQUIRES, et al.
		Group Art Unit	1652
		Examiner Name	
		Attorney Docket Number	P06153US02

<b>OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS</b>			
Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	6	Babol J. et al., "Factors regulating the concentrations of 16-androstene steroids in submaxillary salivary glands of pigs", Journal of Animal Science, Vol. 74, pp. 413-419, 1996	
	7	Database WPI, Derwent Publications Ltd., London, GB; AN 1996-107098; Jens Hansen-Moller: Fremgangsmade til at undersøge grise for at bestemme om de er egnede til avl eller formering samt anvendelse af dyr eller sæd" & DK 171 085 B (Slagteriernes Forskningsinstitut) 05/28/1996	
	8	Diaz, Gonzalo J et al., "Identification of phase I metabolites of 3-methylindole produced by pig liver microsomes", Drug Metabolism and Disposition, Vol. 27, No. 10, pp. 1150-1156, October 1999	
	9	Diaz, Gonzalo J. et al., "Metabolism of 3-methylindole by porcine liver microsomes: Responsible cytochrome P450 enzymes", Toxicological Sciences, Vol. 55, No. 2, pp. 284-292, June 2000	
	10	Diaz, Gonzalo J. et al., "Role of aldehyde oxidase in the hepatic in vitro metabolism of 3-methylindole in pigs", J of Agric and Food Chemistry, Vol. 48, No. 3, pp. 833-837, March 2000	
	11	Griffin, M. J., et al. "p-Nitrophenol UDP Glucuronyltransferase and Epoxide Hydrase in Microsomes from Liver of Rats Fed 2-Acetylaminofluorene and Barbitol" Proc. Okla. Acad. Sci. 59:12-15 (1979)	
	12	Marini, S., et al. "Xenobiotic-metabolizing enzymes in pig nasal and hepatic tissues" XENOBIOTICA, 1998, Vol. 28, No. 10, 923-935	
	13	Meadus W.J. et al., "Cytochrome P450c17 from porcine and bovine adrenal catalyses the formation of 5,16-androstadien-3beta-ol from pregnenolone in the presence of cytochrome b5", The Journal of Steroid Biochemistry and Molecular Biology, Vol. 46, No. 5, pp. 565-572, 1993	
	14	Ozols, Juris, "Structure of cytochrome b <sub>5</sub> and its topology in the microsomal membrane" Biochimica et Biophysica Acta, 997 (1989) 121-130	
	15	Potchoiba M J et al., "Metabolism and Pneumo Toxicity of 3 Methyl Oxindole Indole 3 Carbinol and 3 Methyl Indole in Goats", American Journal of Veterinary Research, Vol. 43, No. 8, pp. 1418-1423, 1982	
	16	Shibata, Noriaki et al. "Male-specific suppression of hepatic microsomal UDP-glucuronosyl transferase activities toward sex hormones in the adult male rat administered bisphenol A" Biochem. J. (2002) 368, 783-788	
	17	Skordos Konstantine W et al., "Evidence supporting the formation of 2,3-epoxy-3-methylindoline: A reactive intermediate of the pneumotoxin 3-methylindole", Chemical Research in Toxicology, Vol. 11, No. 7, pp. 741-740 1998	
	18	Squires, E.J. and Steggles, A., "Analysis of porcine cytochrome b5 and its relation to boar taint", The BASEB Journal, Vol. 11, No. 9, page a1216, 1997	

Examiner Signature		Date Considered	
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\* EXAMINER: Initial if reference considered whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.  
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Form PTO/SB/08B (10-01)  
Approved for use through 10/31/2002. OMB 0651-0031  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE